

Section 1. Registration Information

Source Identification

Facility Name:	Americold, Phoenix - Plant # 78403
Parent Company #1 Name:	Americold Realty
Parent Company #2 Name:	

Submission and Acceptance

Submission Type:	Re-submission
Subsequent RMP Submission Reason:	5-year update (40 CFR 68.190(b)(1))
Description:	
Receipt Date:	11-Jun-2009
Postmark Date:	11-Jun-2009
Next Due Date:	11-Jun-2014
Completeness Check Date:	11-Jun-2009
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

Facility Identification

EPA Facility Identifier:	1000 0015 9678
Other EPA Systems Facility ID:	

Dun and Bradstreet Numbers (DUNS)

Facility DUNS:	58149378
Parent Company #1 DUNS:	58149378
Parent Company #2 DUNS:	

Facility Location Address

Street 1:	455 S. 75th Ave
Street 2:	
City:	Phoenix
State:	ARIZONA
ZIP:	85043
ZIP4:	
County:	MARICOPA

Facility Latitude and Longitude

Latitude (decimal):	33.443172
Longitude (decimal):	-112.219961
Lat/Long Method:	Interpolation - Photo
Lat/Long Description:	Process Unit Area Centroid
Horizontal Accuracy Measure:	25
Horizontal Reference Datum Name:	North American Datum of 1983
Source Map Scale Number:	24000

Owner or Operator

Operator Name:	Americold
Operator Phone:	(678) 441-1400

Mailing Address

Operator Street 1:	10 Glenlake Parkway suite 800
Operator Street 2:	
Operator City:	Atlanta
Operator State:	GEORGIA
Operator ZIP:	30328
Operator ZIP4:	
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Mike Elliott
RMP Title of Person or Position:	Group Support Manager
RMP E-mail Address:	mike.elliott@americoldrealty.com

Emergency Contact

Emergency Contact Name:	Robert Sorenson
Emergency Contact Title:	Operations Manager
Emergency Contact Phone:	(623) 936-1733
Emergency Contact 24-Hour Phone:	(480) 347-6820
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	Robert.Sorenson@americoldrealty.com

Other Points of Contact

Facility or Parent Company E-mail Address:	mike.elliott@americoldrealty.com
Facility Public Contact Phone:	(623) 936-1733
Facility or Parent Company WWW Homepage Address:	

Local Emergency Planning Committee

LEPC:	Maricopa County LEPC
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Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	22
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	Yes
CAA Title V:	
Air Operating Permit ID:	

OSHA Ranking

OSHA Star or Merit Ranking:

Last Safety Inspection

Last Safety Inspection (By an External Agency) Date:	01-Nov-2007
Last Safety Inspection Performed By an External Agency:	Fire Department

Predictive Filing

Did this RMP involve predictive filing?:

Preparer Information

Preparer Name:
Preparer Phone:
Preparer Street 1:
Preparer Street 2:
Preparer City:
Preparer State:
Preparer ZIP:
Preparer ZIP4:
Preparer Foreign State:
Preparer Foreign Country:
Preparer Foreign ZIP:

Confidential Business Information (CBI)

CBI Claimed:
Substantiation Provided:
Unsanitized RMP Provided:

Reportable Accidents

Reportable Accidents:	See Section 6. Accident History below to determine if there were any accidents reported for this RMP.
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Process Chemicals

Process ID:	1000002778
Description:	nh3 system
Process Chemical ID:	1000003031
Program Level:	Program Level 3 process
Chemical Name:	Ammonia (anhydrous)
CAS Number:	7664-41-7
Quantity (lbs):	14070
CBI Claimed:	
Flammable/Toxic:	Toxic

Process NAICS

Process ID:	1000002778
Process NAICS ID:	1000002884
Program Level:	Program Level 3 process
NAICS Code:	49312
NAICS Description:	Refrigerated Warehousing and Storage

Section 2. Toxics: Worst Case

Toxic Worst ID: 1000002104

Percent Weight:

Physical State:

Model Used:

Release Duration (mins):

Wind Speed (m/sec):

Atmospheric Stability Class:

Topography:

Gas liquified by pressure

EPA's RMP*Comp(TM)

10

1.5

F

Rural

Passive Mitigation Considered

Dikes:

Enclosures:

Berms:

Drains:

Sumps:

Other Type:

Section 3. Toxics: Alternative Release

Toxic Alter ID: 1000002438

Percent Weight:	
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Wind Speed (m/sec):	3.0
Atmospheric Stability Class:	D
Topography:	Rural

Passive Mitigation Considered

Dikes:	
Enclosures:	Yes
Berms:	
Drains:	Yes
Sumps:	
Other Type:	

Active Mitigation Considered

Sprinkler System:	Yes
Deluge System:	
Water Curtain:	
Neutralization:	
Excess Flow Valve:	
Flares:	
Scrubbers:	
Emergency Shutdown:	Yes
Other Type:	

Section 4. Flammables: Worst Case

No records found.

Section 5. Flammables: Alternative Release

No records found.

Section 6. Accident History

No records found.

Section 7. Program Level 3

Description

No description available.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000002069
Chemical Name:	Ammonia (anhydrous)
Flammable/Toxic:	Toxic
CAS Number:	7664-41-7

Prevention Program Level 3 ID:	1000001764
NAICS Code:	49312

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	06-Aug-2008
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	06-Aug-2008
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The Technique Used

What If:	
Checklist:	
What If/Checklist:	Yes
HAZOP:	
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	08-Jun-2009

Major Hazards Identified

Toxic Release:	Yes
Fire:	Yes
Explosion:	Yes
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes
Corrosion:	Yes
Overfilling:	Yes
Contamination:	
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	Yes
Earthquake:	Yes
Floods (Flood Plain):	Yes

Tornado:	Yes
Hurricanes:	Yes
Other Major Hazard Identified:	

Process Controls in Use

Vents:	Yes
Relief Valves:	Yes
Check Valves:	Yes
Scrubbers:	
Flares:	
Manual Shutoffs:	Yes
Automatic Shutoffs:	Yes
Interlocks:	Yes
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	
Backup Pump:	
Grounding Equipment:	
Inhibitor Addition:	
Rupture Disks:	
Excess Flow Device:	
Quench System:	
Purge System:	Yes
None:	
Other Process Control in Use:	

Mitigation Systems in Use

Sprinkler System:	
Dikes:	
Fire Walls:	
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	Yes
Neutralization:	
None:	
Other Mitigation System in Use:	Auto shutdown - ammonia detection.

Monitoring/Detection Systems in Use

Process Area Detectors:	Yes
Perimeter Monitors:	
None:	
Other Monitoring/Detection System in Use:	

Changes Since Last PHA Update

Reduction in Chemical Inventory:	
Increase in Chemical Inventory:	
Change Process Parameters:	
Installation of Process Controls:	
Installation of Process Detection Systems:	

Installation of Perimeter Monitoring Systems:

Installation of Mitigation Systems:

None Recommended:

None:

Yes

Other Changes Since Last PHA or PHA Update:

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 13-Mar-2009

Training

Training Revision Date (The date of the most recent review or revision of training programs): 13-Mar-2009

The Type of Training Provided

Classroom:

On the Job:

Yes

Other Training:

RETA Self Study

The Type of Competency Testing Used

Written Tests: Yes

Oral Tests:

Demonstration:

Yes

Observation:

Yes

Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 11-Aug-2008

Equipment Inspection Date (The date of the most recent equipment inspection or test): 25-Mar-2009

Equipment Tested (Equipment most recently inspected or tested):

Compressor & NH3 Detection

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures):

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 06-Aug-2008

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review):

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 11-Aug-2008

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit): 11-Aug-2008

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 13-Mar-2008

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 02-Mar-2009

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 13-Mar-2009

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance): 06-Aug-2008

Confidential Business Information

CBI Claimed:

Section 8. Program Level 2

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?): Yes

Facility Plan (Does facility have its own written emergency response plan?): Yes

Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?): Yes

Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?): Yes

Healthcare (Does facility's ER plan include information on emergency health care?): Yes

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan): 29-Dec-2008

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees): 29-Dec-2008

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated): Phoenix Fire Dept

Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): (602) 262-7589

Subject to

OSHA Regulations at 29 CFR 1910.38: Yes

OSHA Regulations at 29 CFR 1910.120: Yes

Clean Water Regulations at 40 CFR 112:

RCRA Regulations at CFR 264, 265, and 279.52:

OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:

State EPCRA Rules or Laws: Yes

Other (Specify):

Executive Summary

7.0 RISK MANAGEMENT PLAN AND DATA ELEMENTS

The following subsections outline the Executive Summary requirements of the EPA's 40 CFR Part 68.155.

ACCIDENTAL RELEASE PREVENTION AND EMERGENCY RESPONSE POLICIES

The Americold, Phoenix (Plant #78403) facility abides by the emergency response procedures and policies detailed in the Emergency Response Plan manual. This Plan was designed to meet the following objectives:

- To save lives.
- To minimize and avoid injuries.
- To protect the environment.
- To minimize property damage.

Americold maintains an emergency response (safety) committee whose members are the designated emergency coordinators for the facility. The Plan provides the response organization and notification procedures, evacuation routes, ammonia health hazards, and mitigation procedures which will be implemented to respond effectively to emergency situations that may arise at the facility. This Plan is reviewed and updated at least once per year. This Plan will be reviewed and updated to ensure compliance with the PSM and RMP regulations, as well as to incorporate any facility changes.

STATIONARY SOURCE AND REGULATED SUBSTANCE

The Americold, Phoenix (Plant #78403) facility chills and stores a variety of food products in their cold storage warehouse. The refrigeration process, consisting of piping, valves, and equipment, cycles ammonia through various physical states (high pressure liquid, low pressure liquid, low pressure vapor, high pressure vapor, then back to high pressure liquid) in order to provide refrigeration for cold storage rooms. Changes in pressure are directly related to changes in temperature. For example, lowering the ammonia pressure lowers its temperature. Low pressure (cold) liquid ammonia provides refrigeration by removing ambient heat. Removal of ambient heat causes the liquid ammonia (contained within the system) to vaporize. Heat is later removed from the ammonia as it is condensed back into a liquid. Typical operating conditions range from vacuum (approximately 6" Hg) on the low pressure side of the system to 150-160 psig on the high side.

Anhydrous ammonia (CAS #7664-41-7) is used as the refrigerant in the refrigeration process.

The total ammonia inventory exceeds the Threshold Quantity for Accidental Release Prevention.

HAZARD ASSESSMENT SUMMARY

Worst Case Release Result Summary

Discussion deleted per regulation

Alternative Release Result Summary

Discussion deleted per regulation

ACCIDENTAL RELEASE PREVENTION PROGRAM AND CHEMICAL-SPECIFIC PREVENTION STEPS

The facility operates in accordance with the International Institute of Ammonia Refrigeration (IIAR) guidelines and standards including the following:

IIAR Bulletin 107, "Suggested Safety and Operating Procedures When Making Ammonia Refrigeration Tie-ins"

IIAR Bulletin 109, "Minimum Safety Criteria for a Safe Ammonia Refrigeration System"

IIAR, "A Guide to Good Practices for the Operation of an Ammonia Refrigeration System"

In addition, Americold, Phoenix (Plant #78403) has implemented a Process Safety Management program for compliance with the OSHA 1910.119 regulation since 5-26-92.

FIVE YEAR ACCIDENT HISTORY

There have been no RMP reportable releases of ammonia at this facility over the last five years

EMERGENCY RESPONSE PROGRAM

Americold, Phoenix (Plant #78403) has an Emergency Response Program in place. The facility has an Emergency Response Team that is trained to First Responder Operations Level on an annual basis. All Emergency Response Team members are fit tested and respiratory trained annually.

During the RMP Review, it was recommended that the facility conduct annual evacuation drills to ensure all employees understand the emergency response procedures. In addition, it was recommended that the facility contact the local Fire Department regarding participation in the evacuation drills.

PLANNED CHANGES TO IMPROVE SAFETY

During the review of the Process Safety Management program at this facility, the Process Hazard Analysis study generated mitigation measures that would improve safety at the Americold facility located at 455 South 75th Avenue in Phoenix, Arizona. These action items were entered into a management plan and have been addressed.